

## Claims

1. An electronic display including a radiation source and a layer associated with the radiation source, wherein the layer contains a matrix of particles that emit  
5 visible light to illuminate the display in response to operation of the radiation source.
2. An electronic display according to claim 1, wherein the radiation source emits invisible light.
- 10 3. An electronic display according to claim 2, wherein the radiation source emits ultra-violet light.
4. An electronic display according claim 1, wherein the layer contains a matrix  
15 of phosphor particles.
5. An electronic display according to claim 1 wherein the layer contains a matrix of fluorescent particles.
- 20 6. An electronic display according to claim 1, wherein the radiation source is planar.
7. An electronic display according to claim 5, wherein the particles are uniformly distributed throughout the layer to provide a back light effect of uniform  
25 intensity.
8. An electronic display according to claim 1, wherein the radiation source is disposed adjacent to the layer.
- 30 9. An electronic display according to claim 8, wherein the radiation source comprises a plurality of point-like light sources.

10. A electronic display according to claim 8, wherein the particles are distributed in a non-uniform matrix throughout the layer to provide a back light effect of uniform intensity.

5 11. An electronic display according to claim 1, wherein the particles are of a single colour.

12. An electronic display according to claim 1, wherein the particles are of different colours.

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13. An electronic display according to claim 1, wherein a reflector is disposed on the layer.

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14. An electronic display according to claim 1, comprising a liquid crystal display.

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15. A telecommunications device incorporating an electronic display including a radiation source and a layer associated with the radiation source, wherein the layer contains a matrix of particles that emit visible light to illuminate the display in response to operation of the radiation source.

16. A telecommunications device according to claim 15, comprising a mobile telephone.